

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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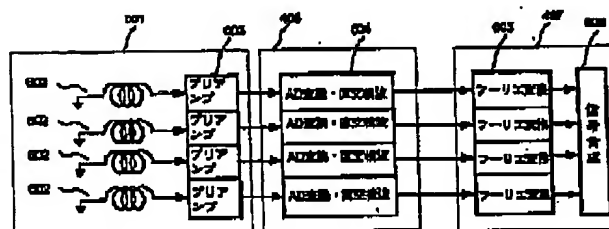
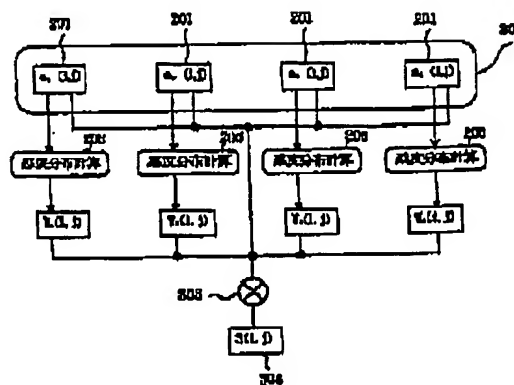
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APPLICANT : TECHNOL RES ASSOC OF MEDICAL & WELFARE APPARATUS;

INVENTOR : TAKIZAWA MASAHIRO;

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TITLE : METHOD AND DEVICE FOR RECONFIGURING CONTINUOUS MRI IMAGE



**ABSTRACT :** PROBLEM TO BE SOLVED: To reduce the time to wait for image display and image transfer by reducing the signal processing time of continuous imaging which utilizes multiple RF coils.

**SOLUTION:** The step of taking one image by receiving, using multiple coils 601, NMR signals generated from a subject and by synthesizing the input signals detected by a plurality of small receiving coils 602 constituting the multiple coils 601 is repeated to form MRI images which are continuous in time-series. The synthesis of the images is effected by weighting the input signal from each small receiving coil 602 in terms of the spatial sensitivity distribution of the small receiving coils 602. The spatial sensitivity distribution of the small receiving coils 602 for use in the synthesis is determined by storing the spatial sensitivity distribution calculated from the input signals detected by the plurality of small receiving coils 602 in one of the repeated steps.

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